

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

## Curriculum Vitae

Nicole E. Medina

### Education

**Bachelor of Science, Chemistry** (1995)  
Emmanuel College, Boston, MA  
**Research Project:** (1994)  
In-Vivo Mapping of Cocaine Metabolites in Biological Fluids  
Conducted at Massachusetts State Police Crime Lab, Toxicology Department

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**Chemist I** State Laboratory Institute (2004-March 2008)  
Massachusetts Department of Public Health  
Drug Analysis Laboratory  
➤ Responsible for the identification of substance to determine violation of the Massachusetts drug laws  
➤ Operate analytical instrumentation, microscopes and balances for forensic drug analysis  
➤ Successfully completed an eight week training in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory  
➤ Appointed assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

**Research Associate** (September 2001 – October 2004)  
Wolfe Laboratories, Newton & Watertown, MA

**Laboratory Technician** (January 1996 - April 1997)  
Gillette, Boston, MA

## Curriculum Vitae

Charles B. Salemi

**Education:**

University Of Massachusetts Amherst Ma.  
Bachelor of Science- Zoology 1973

**Experience:**

2003-present: Chief of Laboratory for the Jamaica Plain site of the Massachusetts Department of Public Health Drug Analysis Laboratory. Oversee and supervise the operations of the Laboratory and Evidence Office. Served as the Department of Public Health's representative on the Commonwealth of Massachusetts Forensic Science Advisory Board 2005-2006.

1980-2003: Served as Chemist 2, 3, and Laboratory Supervisor 1, in the Jamaica Plain Drug Analysis Laboratory. Duties included: analyzing unknown substances and submitting reports to the courts of Massachusetts, developing methods used in the analysis of illicit substances, responsible for the training of new chemists in the laboratory, overseeing the QA/QC program for the laboratory.

1974-1980: Served as a Bacteriologist 1 in the Department of Public Health Food and Drug Laboratory. Duties included the testing of retail food products, to insure microbiological and chemical compliance to the food sanitation code of the Commonwealth of Massachusetts.

**Additional training:**

- Appointed Assistant Analyst for the Department of Public Health -1982
- Completed training course in methods of drug analysis given by the Federal Drug Enforcement Agency (DEA) in McLean Va. 1983.
- Completed training in the use of Fourier Transform Infrared Spectroscopy conducted at the Analect Instrument training facility 1984.
- Completed workshop in Solid Phase Extractions conducted by Baker Chemical 1984.
- Completed training in Polarized Light and Chemical Microscopy Techniques conducted by the Northeastern Association of Forensic Scientists (NEAFS) 1986.
- Completed workshop in Clandestine Laboratories (NEAFS) 1990.
- Completed training course in Capillary Gas Chromatography conducted by Hewlett-Packard 1991.
- Post Graduate Courses in Instrumental Chemical Analysis-Northeastern University 1982, and Human Toxicology, Harvard University 1983.
- Testified as an expert witness in numerous drug analysis cases in State and Federal Court.

**Organizations:**

Member of the following:

- Massachusetts Organization of State Engineers and Scientists
- Northeastern Association of Forensic Scientists ( NEAFS)